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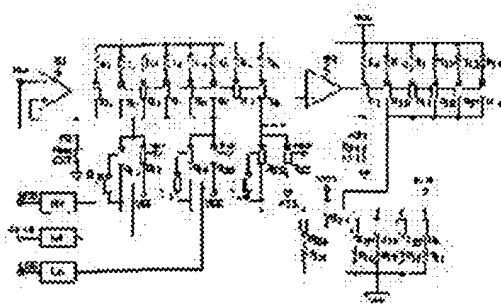
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(54) DATA STORAGE DEVICE

(57)Abstract:

PURPOSE: To obtain a channel circuit changing the factor of ΔV (a minimum voltage change per unit time for discriminating a data and noises) by adapting a write current and the factor at every conversion head.

CONSTITUTION: In an adjustable write power supply, either of the eight different values of a write current can be selected so as to acquire the optimum value of the write current at a specific radial place regarding the combination of specific head/disk. The selected current is kept within 5% of a specific value. The current value imparts an accurate write current value by utilizing precision reference voltage generated on an electronic card. Reference voltage is applied to negative inputs to the two operational amplifiers 51, 52 of the circuit of an adjustable current source. The operational amplifier 52 constitutes the current source



together with a transistor Q9 and a resistor R21. The operational amplifier 51 and a transistor Q1 form another current source determined by a resistor 20, the same current as a current known as a step current is also made to flow through a transistor Q2 or Q8, and an environmentally stable current weighted at three binary values is generated.

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